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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,772	08/18/2003	Meir Rosenberg	022719-0046	3663
21125 NUTTER MCC	7590 10/04/200 CLENNEN & FISH LL	EXAMINER		
WORLD TRADE CENTER WEST			HOEKSTRA, JEFFREY GERBEN	
155 SEAPORT BOULEVARD BOSTON, MA 02210-2604			ART UNIT	PAPER NUMBER
			3736	
			NOTIFICATION DATE	DELIVERY MODE
			10/04/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@nutter.com

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7		Application No.	Applicant(s)				
		10/642,772.	ROSENBERG, MEIR				
	Office Action Summary	Examiner	Art Unit				
		Jeffrey G. Hoekstra	3736				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet w	ith the correspondence addres	SS			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPORTED FOR IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period trees to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply will by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN. 136(a). In no event, however, may a d will apply and will expire SIX (6) MO tte, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	·			
Status							
1)⊠	Responsive to communication(s) filed on 27.	April 2007.					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims		•				
5)□ 6)⊠ 7)□	Claim(s) 1-27 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed Claim(s) 1-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.	·				
Applicat	ion Papers						
10)⊠	The specification is objected to by the Examir The drawing(s) filed on <u>18 August 2003</u> is/are Applicant may not request that any objection to th Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examir Theorem 1.	e: a)⊠ accepted or b)⊡ o e drawing(s) be held in abeya ction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1	· ·			
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Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some colon None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notion Notion Notion Notion	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 				

Art Unit: 3736

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-11, 13, and 15-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fonger et al (US 5,291,896) in view of Purdy et al (US 2003/0097082 A1).
- 3. For claims 1 and 18, Fonger et al discloses a catheter drainage system as broadly as *structurally* claimed, comprising: an elongated tube, or catheter, 12 including a distally disposed solid state pressure transducing sensor 14 (column 6 lines 1-41) as best seen in Figures 1 and 2 and (b) said sensor *functions* to measure pressure adjacent the external surface of the distal-most end of the catheter (column 5 lines 4-20 and column 6 lines 1-41), further including at least one wire 24 distally coupled to the sensor and proximally mated to an apparatus for electrical powering or communicating that extends along the length of the catheter in fluid isolation from the inner lumen 40 and wherein the at least one wire being proximally separable from the elongated tube through a slit 46 such that the tube length is selectively adjustable (column 2 lines 30-35 and column 4 lines 32-44)). Furthermore, the slit 46 extends through the outer wall 15 of the tube 12 into the second lumen 42 such that the at least one wire can be partially removed to adjust the tube length.

Art Unit: 3736

- 4. For claims 2 and 11, Fonger et al discloses the at least one wire 24 disposed within a second lumen 42 isolated from the first and wherein the slit 46 extends into the second lumen).
- 5. For claim 3, 6-10, and 21-24, Fonger et al discloses a slit 46 extending through the outer wall 15 of the tube 12 into the second lumen 42 such that the tube length is selectively adjustable (column 4 lines 32-44). The slit 46 is configured such that the at least one wire can be partially removed to adjust the tube length and when said wire(s) is/are inserted they are in substantial fluid isolation via the sealing action of the polymer. The slit 46 is configured (column 4 lines 6-10) to extend along a distance less than the length of the catheter and less than about one half the length of the catheter as best seen in Figure 1.
- 6. For claims 4 and 19, Fonger et al discloses a first lumen diameter greater than the second lumen diameter (column 3 lines 60-66).
- 7. For claims 5 and 20, Fonger et al discloses multiple secondary lumens 84,86,88,90 formed within an invagination of the outer tube wall 12 as best seen in Figure 7.
- 8. For claims 13 and 25, Fonger et al discloses the use of a flexible, biocompatible polymer (column 3 lines 41-42).
- 9. For claims 15-17 and 26-27, Fonger et al discloses a distally disposed pressure sensor (column 6 lines 13-18) adapted to sense physiological conditions adjacent to the elongated tube and disposed within the secondary lumen with an inner diameter of 10 French (column 3 lines 63-66) which is equal to approximately 3.3 mm or 0.131 inches.

Art Unit: 3736

- 10. Thus for claims 1-11, 13, and 15-27, Fonger et al discloses the claimed invention except for explicitly disclosing (a) the distally disposed pressure sensor embedded in a distal portion of the catheter and (b) the at least one wire having a proximal end mated to an external antenna. Purdy et al teaches (a) a distally disposed pressure sensor (94) embedded in a distal portion of the catheter (as best seen in Figure 14, 15, and 17) (paragraph 132) and (b) at least one wire having a proximal end mated to an external antenna (wire element 96, paragraph 133). The claims would have been obvious because the substitution of one known element for another would have yielded predictable results to one of ordinary skill in the art at the time of the invention. Because both Fonger et al and Purdy et al teach pressure measurement catheters, it would have been obvious to one skilled in the art at the time of the invention to substitute one distally disposed pressure sensor configuration for the other to achieve the predictable results of measuring a pressure of fluid surrounding the distal portion of the catheter via a distally disposed pressure sensor configuration in a pressure measurement catheter system.
- 11. Claims 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fonger et al in view of Purdy et al and in further view of Quackenbush (US 5,104,398). Fonger et al in view of Purdy et al discloses the claimed sensor catheter drainage system except for (a) the polymer selected from a group consisting of silicones, silicone-like materials, and polyurethanes and (b) the at least one wire is disposed within a secondary catheter coupled to the first that can be peeled apart to allow the catheter length to be adjusted independent the length of the secondary

catheter. Quackenbush discloses a membrane splitting tube 10 comprised of polyurethane (column 3 line 23) with a catheter or wire inserted in an outer peel-away membrane (column 1 lines 33-41). The claim would have been obvious because a person of ordinary skill at the time of the invention would have a good reason to pursue the known options within his or her technical grasp. If this leads to the anticipated success, it is likely the product is not of innovation but of ordinary skill and common sense. Thus, it would have been obvious to a person of ordinary skill in the art at the time of the invention to try using a polyurethane catheter with a secondary catheter or wire inserted in an outer peel-away membrane as taught by Quackenbush in an attempt to provide a catheter with a selectively adjustable length, as a person with ordinary skill has a good reason to pursue the known options within his or her technical grasp. In turn, because the catheter, wire, and secondary catheter as claimed have the properties predicted by the prior art, it would have been obvious to make a catheter having at least one wire running therethrough, which is coupled to a sensor disposed at a distal portion of the catheter, and wherein an outer peel-away membrane is provided to selectively adjust the length of a catheter.

Response to Arguments

12. Applicant's arguments, see pages 2-3, filed 04/27/2007, with respect to the rejection(s) of claim(s) 1-11, 13, and 15-27 35 U.S.C. 103(a) as being unpatentable over Fonger et al in view of Purdy et al have been fully considered and are persuasive.

Therefore, the rejection has been withdrawn. However, upon further consideration, a

Application/Control Number: 10/642,772 Page 6

Art Unit: 3736

new ground(s) of rejection is made in view of a different interpretation of the previously applied reference and a new ground(s) of obviousness.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey G. Hoekstra whose telephone number is (571)272-7232. The examiner can normally be reached on Monday through Friday, 8:00 a.m. to 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max F. Hindenburg can be reached on (571)272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/J.H./ Jeff Hoekstra Examiner, Art Unit 3736

MAX F MINDENBURG SUPERVICTORY PATENT EXAMINER